



# FCC PART 15.247

# **TEST REPORT**

For

# MPOW TECHNOLOGY CO.,LIMITED

FLAT/RM 605 6/F FA YUEN COMMERCIAL BUILDING 75-77 FA YUEN STREET MONGKOK KL HONG KONG

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# **TABLE OF CONTENTS**

TEST METHODOLOGY     4       MEASUREMENT UNCERTAINTY     5       TEST FACILITY     5       DECLARATIONS     5       SYSTEM TEST CONFIGURATION     6       DESCREPTION OF TEST CONFIGURATION     6       EQUIPMENT MODIFICATIONS     6       EUT EXERCISE SOFTWARE     6       SUPPORT CABLE LIST AND DETAILS     7       SUPPORT CABLE LIST AND DETAILS     7       BLOCK DIAGRAM OF TEST SETUP     8       SUMMARY OF TEST RESULTS     9       FCC §15.203 - ANTENNA REQUIREMENT     10       APPLICABLE STANDARD     10       FCC §15.203 - ANTENNA REQUIREMENT     11       APPLICABLE STANDARD     12       EUT SETUP     12       EUT SETUP     12       EUT SETUP     12       EUT SETUP     12       CORRECTED ANDRARD     12       EUT SETUP     13       TEST PROCEDURE     14	OBJECTIVE     4       RELATED SUBMITTAL(S)/GRANT(S)     4       RELATED SUBMITTAL(S)/GRANT(S)     4       MEASUREMENT UNCERTAINTY     5       DECLARATIONS     5       SYSTEM TEST CONFIGURATION     6       DEQUIPMENT MODIFICATIONS     6       EQUIPMENT MODIFICATIONS     6       EQUIPMENT MODIFICATIONS     6       EQUIPMENT MODIFICATIONS     6       EQUIPMENT MODIFICATIONS     6       SUPPORT CABLE LIST AND DETAILS     7       SUPPORT CABLE LIST AND DETAILS     7       BLOCK DIAGRAM OF TEST SETUP     8       SUMMARY OF TEST RESULTS     9       FCC §15.247 (i) & §1.1310 & §2.1093- RF EXPOSURE     10       APPLICABLE STANDARD     10       APPLICABLE STANDARD     10       APPLICABLE STANDARD     10       APPLICABLE STANDARD     11       APPLICABLE STANDARD     12       EUT SETUP     12 <t< th=""><th>GENERAL INFORMATION</th><th>4</th></t<>	GENERAL INFORMATION	4																																																																						
RelateD SUBMITIAL(S)/GRANT(S)	Rel ATED SUBMITIAL(S)/GRANT(S).     4       TEST METHODOLOGY     4       MEASUREMENT UNCERTAINTY     5       TEST FACILITY     5       DECLARATIONS     5       SYSTEM TEST CONFIGURATION     6       DEQUERATION OF TEST CONFIGURATION     6       EQUERMENT MODIFICATIONS     6       EQUERMENT MODIFICATIONS     6       EQUERMENT MODIFICATIONS     6       SUMPORT EQUERMENT LIST AND DETAILS     7       BLOCK DIAGRAM OF TEST SETUP     8       SUMMARY OF TEST RESULTS     9       FCC §15.247 (i) & §1.1310 & §2.1093- RF EXPOSURE     10       APPLICABLE STANDARD     10       FCC §15.247 (i) A S (1.1310 & §2.1093- RF EXPOSURE     10       APPLICABLE STANDARD     11       APPLICABLE STANDARD     11       APPLICABLE STANDARD     11       APPLICABLE STANDARD     12       EUT SETUR     12       EUT SETUR     12       EUT SETUR     12       CY (a) - AC LINE CONDUCTED EMISSIONS     12       TEST PROCEDURE     13       CORRECTED STANDARD     12       TEST PROCEDURE     13																																																																								
TEST METHODOLOGY     4       MEASUREMENT UNCERTAINTY     5       TEST FACILITY     5       DECLARATIONS     5       SYSTEM TEST CONFIGURATION     6       DESCREPTION OF TEST CONFIGURATION     6       EQUIPMENT MODIFICATIONS     6       EUTE EXERCISE SOFTWARE     6       SUPPORT CABLE LIST AND DETAILS     7       SUPPORT CABLE LIST AND DETAILS     7       BLOCK DIAGRAM OF TEST SETUP     8       SUMMARY OF TEST RESULTS     9       FCC §15.203 - ANTENNA REQUIREMENT     10       APPLICABLE STANDARD     10       FCC §15.203 - ANTENNA REQUIREMENT     11       APPLICABLE STANDARD     12       EUT SETUP     12       EUT SETUP     12       EUT SETUP     12       EUT SETUP     12       CORRECTED ANDRARD     12       EUT SETUP     12       EUT SETUP     13       CORRECTED AMPLITUDE & MARGIN CALCULATION     13       TEST PROCEDURE     14       FCC §15.209, §15.205, §15.247(d) - SPURIOUS EMISSIONS     16       APPLICABLE STANDARD     16       EUT SETUP	TEST METHODOLOGY     4       MEASUREMENT UNCERTAINTY.     5       TEST FACILITY.     5       DECLARATIONS     5       SYSTEM TEST CONFIGURATION.     6       DESCRIPTION OF TEST CONFIGURATION.     6       EUIPMENT MODIFICATIONS     6       SUPPORT FQUIPMENT LIST AND DETAILS     7       SUPPORT FQUIPMENT LIST AND DETAILS     7       SUPPORT FQUIPMENT LIST AND DETAILS     7       SUMMARY OF TEST RESULTS     9       FCC §15.247 (i) & §1.1310 & §2.1093- RF EXPOSURE     10       APPLICABLE STANDARD     10       FCC §15.203 - ANTENNA REQUIREMENT     11       APPLICABLE STANDARD     11       APPLICABLE STANDARD     12       EUT SETUP     12       FCC §15.207 (a) – AC LINE CONDUCTED EMISSIONS     12       APPLICABLE STANDARD     12       EUT SET RECEIVER SETUP.     12       EUT SET DATA     13       TEST DATA     14       TEST DATA     14       FCC §15.205, §15.247(d) - SPURIOUS EMISSIONS     16       APPILCABLE STANDARD     12       EUT SET RECEIVER & SPECTRUM ANALYZER SETUP.     16       CORRE																																																																								
MEASUREMENT UNCERTAINTY.     5       TEST FACILITY.     5       TEST FACILITY.     5       STEST FACILITY.     5       SYSTEM TEST CONFIGURATION.     6       DECLARATIONS.     6       EQUIPMENT MODIFICATIONS.     6       EQUIPMENT MODIFICATIONS.     6       EUT EXERCISE SOFTWARE.     6       SUPPORT EQUIPMENT LIST AND DETAILS.     7       BLOCK DIAGRAM OF TEST SETUP.     8       SUMMARY OF TEST RESULTS.     9       FCC §15.247 (i) & §1.1310 & §2.1093- RF EXPOSURE.     10       APPLICABLE STANDARD     10       APPLICABLE STANDARD     10       APPLICABLE STANDARD     11       ANTENNA REQUIREMENT.     11       APPLICABLE STANDARD     12       APPLICABLE STANDARD     12       APPLICABLE STANDARD     12       APPLICABLE STANDARD     12       C §15.207 (a) – AC LINE CONDUCTED EMISSIONS     12       APPLICABLE STANDARD     12       EUT SETUP     12       ENT PROCEDURE     13       CORRECTED AMPLITUDE & MARGIN CALCULATION     13       TEST PROCEDURE     14	MEASUREMENT UNCERTAINTY     5       TEST FACILITY     5       TEST FACILITY     5       STEAT FACILITY     5       SUPPORT EST CONFIGURATION     6       DEURPRENT MODIFICATIONS     6       EUT EXERCISE SOFTWARE     6       SUPPORT EQUIPMENT LIST AND DETAILS     7       BLOCK DIAGRAM OF TEST SETUP     8       SUMMARY OF TEST RESULTS     9       FCC §15.247 (i) & §1.1310 & §2.1093- RF EXPOSURE     10       APPILCABLE STANDARD     10       FCC §15.203 - ANTENNA REQUIREMENT     11       APPILCABLE STANDARD     11       ANTENNA INFORMATION AND CONNECTOR CONSTRUCTION     11       FCC §15.207 (a)- AC LINE CONDUCTED EMISSIONS     12       APPILCABLE STANDARD     12       EUT SETUP     12       EUT SETUP     12       EUT SETUP     12       EVENT FOLLOWER SETUP     12       EUT SETUP     12       FC §15.207 (a) - SUPURIOUS EMISSIONS     12       APPILCABLE STANDARD <td></td> <td></td>																																																																								
TEST FACILITY     5       DECLARATIONS     5       SYSTEM TEST CONFIGURATION     6       DESCRIPTION OF TEST CONFIGURATION     6       EUT EXERCISE SOFTWARE     6       SUPPORT EQUIPMENT MODIFICATIONS     6       EUT EXERCISE SOFTWARE     6       SUPPORT EQUIPMENT LIST AND DETAILS     7       SUPPORT CABLE LIST AND DETAILS     7       BLOCK DIAGRAM OF TEST SETUP     8       SUMMARY OF TEST RESULTS     9       FCC §15.247 (i) & §1.1310 & §2.1093- RF EXPOSURE     10       APPLICABLE STANDARD     10       FCC §15.203 - ANTENNA REQUIREMENT     11       ANTENNA INFORMATION AND CONNECTOR CONSTRUCTION     11       ANTENNA INFORMATION AND CONNECTOR CONSTRUCTION     11       ANTENNA INFORMATION AND CONNECTOR CONSTRUCTION     12       EUT SETUP     12       EUT SETUP     12       EUT SETUP     12       EUT SETROCEDURE     12       CORRECTED AMPLITUDE & MARGIN CALCULATION     13       CORRECTED AMPLITUDE & MARGIN CALCULATION     13       TEST BOUTMENT LIST AND DETAILS     13       TEST PROCEDURE     16       CORRECTED AMPLITUDE & MARGI	TEST FACILITY     5       DECLARATIONS     5       SYSTEM TEST CONFIGURATION     6       DESCRIPTION OF TEST CONFIGURATION     6       EUT EXECTES SOFTWARE     6       SUPPORT EQUIPMENT MODIFICATIONS     6       SUPPORT EQUIPMENT MODIFICATIONS     6       SUPPORT EQUIPMENT MODIFICATIONS     6       SUPPORT EQUIPMENT MODIFICATIONS     6       SUPPORT EQUIPMENT LIST AND DETAILS     7       SUPPORT CABLE LIST AND DETAILS     7       SUMMARY OF TEST RESULTS     9       FCC §15.247 (i) & §1.1310 & §2.1093- RF EXPOSURE     10       APPLICABLE STANDARD     10       FCC §15.203 - ANTENNA REQUIREMENT     11       APPLICABLE STANDARD     11       APPLICABLE STANDARD     12       EUT SETUP     12       EMI TEST RECEIVER SETUP     12       EMI TEST RECEIVER SETUP     12       EMI TEST RECEIVER MARGIN CALCULATION     13       TEST DATA     14       TEST EQUIPMENT LIST AND DETAILS     13 </td <td></td> <td></td>																																																																								
DECLARATIONS5SYSTEM TEST CONFIGURATION6DESCRIPTION OF TEST CONFIGURATION6EQUIPMENT MODIFICATIONS6EQUIPMENT MODIFICATIONS6EUT EXERCISE SOFTWARE6SUPPORT EQUIPMENT LIST AND DETAILS7BLOCK DIAGRAM OF TEST SETUP8SUMMARY OF TEST RESULTS9FCC §15.247 (i) & §1.1310 & §2.1093- RF EXPOSURE10APPLICABLE STANDARD10FCC §15.203 - ANTENNA REQUIREMENT11APPLICABLE STANDARD11APPLICABLE STANDARD11APPLICABLE STANDARD12EUT SET RECEIVER SETUP12EWI TEST RECEIVER SETUP12TEST PROCEDURE13CORRECTED AMENTION AND DETAILS13TEST DATA14FCC §15.205, §15.247(d) - SPURIOUS EMISSIONS16APPLICABLE STANDARD16EUT SETUP17TEST DATA16APPLICABLE STANDARD16APPLICABLE STANDARD16APPLICABLE STANDARD16APPLICABLE STANDARD16APPLICABLE STANDARD16APPLICABLE STANDARD16APPLICABLE STANDARD16APPLICABLE STANDARD16APPLICABLE STANDARD16APPLICABLE STANDARD16EUT SETUP17CORECEDURE17CORECEDURE18	DECLARATIONS5SYSTEM TEST CONFIGURATION6DESCRIPTION OF TEST CONFIGURATION6EQUIPMENT MODIFICATIONS6EQUIPMENT MODIFICATIONS6EQUIPMENT MODIFICATIONS6SUPPORT CABLE LIST AND DETAILS7BLOCK DIAGRAM OF TEST SETUP8SUMMARY OF TEST RESULTS9FCC §15.247 (i) & §1.1310 & \$2.1093- RF EXPOSURE10APPLICABLE STANDARD10FCC §15.247 (i) & \$1.1310 & \$2.1093- RF EXPOSURE10APPLICABLE STANDARD10FCC §15.203 - ANTENNA REQUIREMENT11APPLICABLE STANDARD11ANTENNA INFORMATION AND CONNECTOR CONSTRUCTION11FCC §15.207 (a) - AC LINE CONDUCTED EMISSIONS12APPLICABLE STANDARD12EUT SETUP12EUT SETUP12EUT SETUP12ENT TEST RECEIVER SETUP12ENT TEST RECEIVER SETUP13CORRECTED AMPLITUDE & MARGIN CALCULATION13TEST DATA14FCC §15.207, (a) (a) - 6 dB EMISSION SALISIONS16APPLICABLE STANDARD16EMT TEST RECEIVER & SPECTRUM ANALYZER SETUP17TEST PROCEDURE17TEST DATA18FCC §15.247(a) (a) - 6 dB EMISSION BANDWIDTH.24APPLICABLE STANDARD24TEST DATA24FCC §15.247(b) (a) - MAXIMUM PEAK CONDUCTED OUTPUT POWER27FCC §15.247(b) (a) - MAXIMUM PEAK CONDUCTED OUTPUT POWER27																																																																								
DESCRIPTION OF TEST CONFIGURATION6EQUIPMENT MODIFICATIONS6EQUIPMENT MODIFICATIONS6EUT EXERCISE SOFTWARE6SUPPORT EQUIPMENT LIST AND DETAILS7SUPPORT CABLE LIST AND DETAILS7BLOCK DIAGRAM OF TEST SETUP8SUMMARY OF TEST RESULTS9FCC §15.247 (i) & §1.1310 & §2.1093- RF EXPOSURE10APPLICABLE STANDARD10FCC §15.203 - ANTENNA REQUIREMENT11APPLICABLE STANDARD11APPLICABLE STANDARD11APPLICABLE STANDARD12EUT STUP12EUT STUP12EUT STUP12EUT TSTUP12EUT TSTUP12EUT TSTUP12EUT STUP13CORRECTED AMPLITUDE & MARGIN CALCULATION13TEST DATA14FCC §15.205, §15.247(d) - SPURIOUS EMISSIONS16APPLICABLE STANDARD16EUT STUP16EUT STUP16EUT STUP16EUT STUP16EUT STUP16EUT STUP16EUT STUP16APPLICABLE STANDARD16APPLICABLE STANDARD16APPLICABLE STANDARD16APPLICABLE STANDARD16APPLICABLE STANDARD16EUT SETUP17TEST DACCEDURE17TEST RECEIVER & SPECTRUM ANALYZER SETUP17TEST RECEIVER & SPECTRUM ANALYZER SETUP16EUT SETUP16EMI STAND AD DETA	DESCRIPTION OF TEST CONFIGURATION6EQUIPMENT MODIFICATIONS6EUT EXERCISE SOFTWARE6SUPPORT EQUIPMENT LIST AND DETAILS7SUPPORT EQUIPMENT LIST AND DETAILS7SUPPORT CABLE LIST AND DETAILS7SUMMARY OF TEST RESULTS9FCC §15.247 (i) & §1.1310 & §2.1093- RF EXPOSURE10APPLICABLE STANDARD10FCC §15.203 - ANTENNA REQUIREMENT11ANTENNA INFORMATION AND CONNECTOR CONSTRUCTION11ANTENNA INFORMATION AND CONNECTOR CONSTRUCTION11ANTENNA INFORMATION AND CONNECTOR CONSTRUCTION12EMI TEST RECEIVER SETUP12EMI TEST RECEIVER SETUP12EMI TEST RECEIVER SETUP13CORRECTED AMPLITUDE & MARGIN CALCULATION13TEST DATA14FCC §15.207, §15.247(d) - SPURIOUS EMISSIONS16APPLICABLE STANDARD16EUT SETUP17TEST RECEIVER & SPECTRUM ANALYZER SETUP17TEST PROCEDURE17TEST DATA18FCC §15.247(a) (2) - 6 dB EMISSION BANDWIDTH24APPLICABLE STANDARD24TEST DATA18FCC §15.247(b) (3) - MAXIMUM PEAK CONDUCTED OUTPUT POWER27																																																																								
DESCRIPTION OF TEST CONFIGURATION6EQUIPMENT MODIFICATIONS6EQUIPMENT MODIFICATIONS6EUT EXERCISE SOFTWARE6SUPPORT EQUIPMENT LIST AND DETAILS7SUPPORT CABLE LIST AND DETAILS7BLOCK DIAGRAM OF TEST SETUP8SUMMARY OF TEST RESULTS9FCC §15.247 (i) & §1.1310 & §2.1093- RF EXPOSURE10APPLICABLE STANDARD10FCC §15.203 - ANTENNA REQUIREMENT11APPLICABLE STANDARD11APPLICABLE STANDARD11APPLICABLE STANDARD12EUT SETUP12Correct (structure)12EUT SETUP12EUT SETUP12EUT SETUP12EUT SETUP12EUT SETUP13Corrected AMPLITUDE & MARGIN CALCULATION13TeST DATA14FCC §15.209, §15.205, §15.247(d) - SPURIOUS EMISSIONS16APPLICABLE STANDARD16EUT SETUP13TeST DATA14FCC §15.209, §15.205, §15.247(d) - SPURIOUS EMISSIONS16APPLICABLE STANDARD16EUT SETUP17TeST RECEIVER & SPECTRUM ANALYZER SETUP16EUT SETUP16EMIT SET ATA18TEST DATA18FCC §15.247(a) (2) - 6 dB EMISSION BANDWIDTH24APPLICABLE STANDARD24 <t< td=""><td>DESCRIPTION OF TEST CONFIGURATION6EQUIPMENT MODIFICATIONS6EQUIPMENT MODIFICATIONS6EUT EXERCISE SOFTWARE6SUPPORT EQUIPMENT LIST AND DETAILS7SUPPORT EQUIPMENT LIST AND DETAILS7SUPPORT CABLE LIST AND DETAILS7BLOCK DIAGRAM OF TEST SETUP8SUMMARY OF TEST RESULTS9FCC §15.247 (i) &amp; §1.1310 &amp; §2.1093- RF EXPOSURE10APPLICABLE STANDARD10FCC §15.203 - ANTENNA REQUIREMENT11APPLICABLE STANDARD11ANTENNA INFORMATION AND CONNECTOR CONSTRUCTION11ANTENNA INFORMATION AND CONNECTOR CONSTRUCTION12EMI TEST RECEIVER SETUP12EMI TEST RECEIVER SETUP12EMI TEST RECEIVER SETUP13CORRECTED AMPLITUDE &amp; MARGIN CALCULATION13TEST DATA14FCC §15.207, §15.247(d) - SPURIOUS EMISSIONS16APPLICABLE STANDARD16EUT TEST PROCEDURE17TEST DATA18FCC §15.247(a) (2) - 6 dB EMISSION BANDWIDTH24APPLICABLE STANDARD14FCC §15.247(b) (3) - MAXIMUM PEAK CONDUCTED OUTPUT POWER27</td><td>SYSTEM TEST CONFIGURATION</td><td>6</td></t<>	DESCRIPTION OF TEST CONFIGURATION6EQUIPMENT MODIFICATIONS6EQUIPMENT MODIFICATIONS6EUT EXERCISE SOFTWARE6SUPPORT EQUIPMENT LIST AND DETAILS7SUPPORT EQUIPMENT LIST AND DETAILS7SUPPORT CABLE LIST AND DETAILS7BLOCK DIAGRAM OF TEST SETUP8SUMMARY OF TEST RESULTS9FCC §15.247 (i) & §1.1310 & §2.1093- RF EXPOSURE10APPLICABLE STANDARD10FCC §15.203 - ANTENNA REQUIREMENT11APPLICABLE STANDARD11ANTENNA INFORMATION AND CONNECTOR CONSTRUCTION11ANTENNA INFORMATION AND CONNECTOR CONSTRUCTION12EMI TEST RECEIVER SETUP12EMI TEST RECEIVER SETUP12EMI TEST RECEIVER SETUP13CORRECTED AMPLITUDE & MARGIN CALCULATION13TEST DATA14FCC §15.207, §15.247(d) - SPURIOUS EMISSIONS16APPLICABLE STANDARD16EUT TEST PROCEDURE17TEST DATA18FCC §15.247(a) (2) - 6 dB EMISSION BANDWIDTH24APPLICABLE STANDARD14FCC §15.247(b) (3) - MAXIMUM PEAK CONDUCTED OUTPUT POWER27	SYSTEM TEST CONFIGURATION	6																																																																						
EQUIPMENT MODIFICATIONS6EUT EXERCISE SOFTWARE6SUPPORT CABLE LIST AND DETAILS7SUPPORT CABLE LIST AND DETAILS7BLOCK DIAGRAM OF TEST SETUP8SUMMARY OF TEST RESULTS9FCC §15.247 (i) & §1.1310 & §2.1093- RF EXPOSURE10APPLICABLE STANDARD10FCC §15.203 - ANTENNA REQUIREMENT11APPLICABLE STANDARD11APPLICABLE STANDARD11FCC §15.207 (a) - AC LINE CONDUCTED EMISSIONS12EMI TEST RECEIVER SETUP12EMI TEST RECEIVER SETUP12EMI TEST RECEIVER SETUP13CORRECTED AMPLITUDE & MARGIN CALCULATION13TEST DATA14FCC §15.209, §15.205, §15.247(d) - SPURIOUS EMISSIONS16APPLICABLE STANDARD16EUT SETUP16EMI TEST RECEIVER & SPECTRUM ANALYZER SETUP17TEST DATA14FCC §15.209, §15.205, §15.247(d) - SPURIOUS EMISSIONS16APPLICABLE STANDARD16EUT SETUP17TEST DATA14FCC §15.207 (a) - 6 dB EMISSION BANDWIDTH24APPLICABLE STANDARD18FCC §15.247(a) (2) - 6 dB EMISSION BANDWIDTH24APPLICABLE STANDARD24TEST DATA24TEST DATA24TEST DATA24TEST DATA24	EQUIPMENT MODIFICATIONS6EUT EXERCISE SOFTWARE6SUPPORT CABLE LIST AND DETAILS7SUPPORT CABLE LIST AND DETAILS7BLOCK DIAGRAM OF TEST SETUP8SUMMARY OF TEST RESULTS9FCC §15.247 (i) & §1.1310 & §2.1093- RF EXPOSURE10APPLICABLE STANDARD10FCC §15.247 (i) & §1.1310 & §2.1093- RF EXPOSURE10APPLICABLE STANDARD11APPLICABLE STANDARD11APPLICABLE STANDARD11APPLICABLE STANDARD11FCC §15.207 (a) - AC LINE CONDUCTED EMISSIONS12CUT SETUP12EUT SETUP12EMI TEST RECEIVER SETUP12EMI TEST RECEIVER SETUP12TEST PROCEDURE13CORRECTED AMPLITUDE & MARGIN CALCULATION13TEST DATA14FCC §15.205, §15.247(d) - SPURIOUS EMISSIONS16APPLICABLE STANDARD16EUT SETUP16EUT SETUP16EUT SETUP16EQUIPMENT LIST AND DETAILS13TEST DATA16APPLICABLE STANDARD16APPLICABLE STANDARD16APPLICABLE STANDARD16EUT SETUP17TEST PROCEDURE17CORRECTED AMPLITUDE & MARGIN CALCULATION17TEST PROCEDURE16EUT SETUP16EUT SETUP17TEST RECEIVER & SPECTRUM ANALYZER SETUP16EUT SETUP17TEST DATA18FCC §15.247(a) (2) -6 dB																																																																								
SUPPORT EQUIPMENT LIST AND DETAILS     7       SUPPORT CABLE LIST AND DETAILS     7       BLOCK DIAGRAM OF TEST SETUP     8       SUMMARY OF TEST RESULTS     9       FCC §15.247 (i) & §1.1310 & §2.1093- RF EXPOSURE     10       APPLICABLE STANDARD     10       FCC §15.203 - ANTENNA REQUIREMENT     11       APPLICABLE STANDARD     11       ANTENNA INFORMATION AND CONNECTOR CONSTRUCTION     11       FCC §15.207 (a) - AC LINE CONDUCTED EMISSIONS     12       APPLICABLE STANDARD     12       EWI TEST RECEIVER SETUP     12       TEST PROCEDURE     13       CORRECTED AMPLITUDE & MARGIN CALCULATION     13       CORRECTED AMPLITUDE & MARGIN CALCULATION     13       TEST DATA     14       FCC §15.209, §15.205, §15.247(d) - SPURIOUS EMISSIONS     16       APPLICABLE STANDARD     16       EUT SETUP     16       APPLICABLE STANDARD     16       APPLICABLE STANDARD     16       APPLICABLE STANDARD     16       APPLICABLE STANDARD     17       TEST DATA     18       TEST PROCEDURE     17       TEST PROCEDURE     18 <td>SUPPORT EQUIPMENT LIST AND DETAILS</td> <td></td> <td></td>	SUPPORT EQUIPMENT LIST AND DETAILS																																																																								
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APPLICABLE STANDARD		APPLICABLE STANDARD	27																																																																						

Page 2 of 33

#### Report No.: RDG200721001-00A

TEST PROCEDURE	
Test Equipment List and Details Test Data	
FCC §15.247(d) – 100 kHz BANDWIDTH OF FREQUENCY BAND EDGE	29
Applicable Standard	
Test Procedure	
Test Equipment List and Details	
TEST DATA	
FCC §15.247(e) - POWER SPECTRAL DENSITY	
Applicable Standard	
Test Procedure	
Test Equipment List and Details	
TEST DATA	

## **GENERAL INFORMATION**

#### **Product Description for Equipment under Test (EUT)**

EUT Name:	MPOW 059 PLUS ANC WIRELESS HEADPHONES
EUT Model:	BH361A
<b>Operation Frequency:</b>	2402-2480MHz
Maximum Peak Output Power (Conducted):	3.89 dBm
Modulation Type:	GFSK
Rated Input Voltage:	DC 3.7V from battery or DC 5V from USB port
Serial Number:	RDG200721001-RF-S1
EUT Received Date:	2020.07.23
EUT Received Status:	Good

#### Objective

This report is prepared on behalf of *MPOW TECHNOLOGY CO.,LIMITED* in accordance with Part 2, Subpart J, Part 15, Subparts A and C of the Federal Communications Commission's rules

The tests were performed in order to determine the compliance of the EUT with FCC Rules Part 15-Subpart C, section 15.203, 15.205, 15.207, 15.209, 15.247 rules.

#### **Related Submittal(s)/Grant(s)**

FCC Part 15C DSS submissions with FCC ID: 2AMH2-BH361A

#### **Test Methodology**

All measurements contained in this report were conducted with ANSI C63.10-2013, American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices and KDB 558074 D01 DTS Meas Guidance v05r02.

All emissions measurement was performed and Bay Area Compliance Laboratories Corp. (Dongguan).

#### **Measurement Uncertainty**

Parameter	Measurement Uncertainty
Occupied Channel Bandwidth	±5 %
RF output power, conducted	±0.61dB
Power Spectral Density, conducted	±0.61 dB
Unwanted Emissions, radiated	30M~200MHz: 4.55 dB,200M~1GHz: 5.92 dB,1G~6GHz: 4.98 dB, 6G~18GHz: 5.89 dB,18G~26.5G:5.47 dB,26.5G~40G:5.63 dB
Unwanted Emissions, conducted	±1.5 dB
Temperature	$\pm 1$ °C
Humidity	$\pm 5\%$
DC and low frequency voltages	±0.4%
Duty Cycle	1%
AC Power Lines Conducted Emission	3.12 dB (150 kHz to 30 MHz)

Note: Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty. The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval.

#### **Test Facility**

The Test site used by Bay Area Compliance Laboratories Corp. (Dongguan) to collect test data is located on the No.69 Pulongcun, Puxinhu Industry Area, Tangxia, Dongguan, Guangdong, China.

The lab has been recognized as the FCC accredited lab under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No. : 897218, the FCC Designation No. : CN1220.

The lab has been recognized by Innovation, Science and Economic Development Canada to test to Canadian radio equipment requirements, the CAB identifier: CN0022.

#### Declarations

BACL is not responsible for the authenticity of any test data provided by the applicant. Data included from the applicant that may affect test results are marked with a triangle symbol " $\Delta$ ". Customer model name, addresses, names, trademarks etc. are not considered data.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.

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# SYSTEM TEST CONFIGURATION

#### **Description of Test Configuration**

The system was configured for testing in RF Transmitting mode.

For Bluetooth LE mode, 40 channels are provided for testing:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
0	2402	20	2442
1	2404		
		38	2478
19	2440	39	2480

EUT was tested with channel 0, 19 and 39.

#### **Equipment Modifications**

No modification was made to the EUT tested.

#### **EUT Exercise Software**

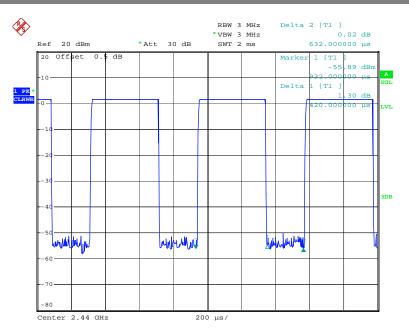
The software:' Blue Test3 ' was used during test, which was provided by manufacturer. The maximum power level was configured by the software as below table:

Channel	Frequency (MHz)	Power Level Setting
Low	2402	default
Middle	2440	default
High	2480	default

The duty cycle as below:

T <sub>on</sub>	T <sub>on+off</sub>	Duty Cycle
(ms)	(ms)	(%)
0.420	0.632	66.46

#### Report No.: RDG200721001-00A



Date: 6.AUG.2020 16:13:36

## **Support Equipment List and Details**

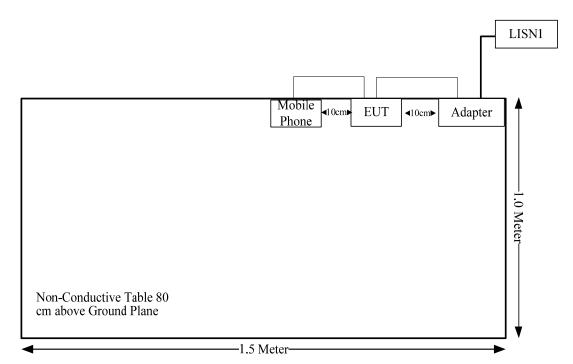
Manufacturer	Description	Model	Serial Number
Switching Power Supply	adapter	HB05M-0501501SPA	7376088
Apple	iPhone	A1863	2017011606002400

## **Support Cable List and Details**

Cable Description	Shielding Type	Ferrite Core	Length (m)	From Port	То
USB Cable	yes	No	0.8	Adapter	EUT
Audio Line	Yes	No	0.8	iPhone	EUT

Report No.: RDG200721001-00A

# **Block Diagram of Test Setup**



# SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
FCC§15.247 (i) & §1.1310 & §2.1093	RF Exposure	Compliance
§15.203	Antenna Requirement	Compliance
§15.207 (a)	AC Line Conducted Emissions	Compliance
§15.205, §15.209, §15.247(d)	Spurious Emissions	Compliance
§15.247 (a)(2)	6 dB Bandwidth	Compliance
§15.247(b)(3)	Maximum Conducted Output Power	Compliance
§15.247(d)	100 kHz Bandwidth of Frequency Band Edge	Compliance
§15.247(e)	Power Spectral Density	Compliance

# FCC §15.247 (i) & §1.1310 & §2.1093- RF EXPOSURE

#### **Applicable Standard**

According to \$15.247(i) and \$1.1310, systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline.

According to KDB447498 D01 General RF Exposure Guidance v06:

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances  $\leq$  50 mm are determined by:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance,

mm)]  $\cdot [\sqrt{f(GHz)}] \le 3.0$  for 1-g SAR and  $\le 7.5$  for 10-g extremity SAR, where

- f(GHz) is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation
- The result is rounded to one decimal place for comparison
- 3.0 and 7.5 are referred to as the numeric thresholds in the step 2 below

The test exclusions are applicable only when the minimum test separation distance is  $\leq 50$  mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm according to 5) in section 4.1 is applied to determine SAR test exclusion.

#### **Measurement Result**

The max conducted power including tune-up tolerance is 4.0 dBm (2.51 mW). [(max. power of channel, mW)/(min. test separation distance, mm)][ $\sqrt{f}$ (GHz)] =2.51/5\*( $\sqrt{2.480}$ ) =0.8< 3.0

#### So the stand-alone SAR evaluation is not necessary.

# FCC §15.203 - ANTENNA REQUIREMENT

#### **Applicable Standard**

According to § 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the user of a standard antenna jack or electrical connector is prohibited. The structure and application of the EUT were analyzed to determine compliance with section §15.203 of the rules. §15.203 state that the subject device must meet the following criteria:

- a. Antenna must be permanently attached to the unit.
- b. Antenna must use a unique type of connector to attach to the EUT.
- c. Unit must be professionally installed, and installer shall be responsible for verifying that the correct antenna is employed with the unit.

#### **Antenna Information And Connector Construction**

The EUT has one internal FPC antenna arrangement for BT, and the antenna gain is 0 dBi, fulfill the requirement of this section. Please refer to the EUT photos.

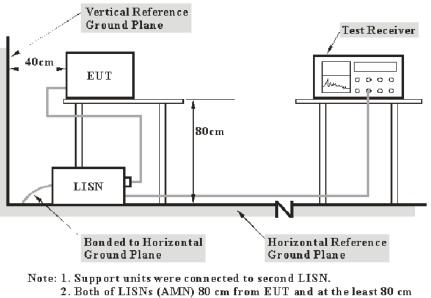
Result: Compliance.

# FCC §15.207 (a)- AC LINE CONDUCTED EMISSIONS

#### **Applicable Standard**

FCC§15.207(a)

#### **EUT Setup**



from other units and other metal planes support units.

The setup of EUT is according with per ANSI C63.10-2013 measurement procedure. The specification used was with the FCC Part 15.207.

The spacing between the peripherals was 10 cm.

The adapter was connected to the main lisn with a 120 V/60 Hz AC power source.

#### **EMI Test Receiver Setup**

The EMI test receiver was set to investigate the spectrum from 150 kHz to 30 MHz.

During the conducted emission test, the EMI test receiver was set with the following configurations:

Frequency Range	IF B/W
150 kHz – 30 MHz	9 kHz

#### **Test Procedure**

During the conducted emission test, the adapter was connected to the first LISN.

The frequency and amplitude of the six highest ac power-line conducted emissions relative to the limit, measured over all the current-carrying conductors of the EUT power cords, and the operating frequency or frequency to which the EUT is tuned (if appropriate), should be reported, unless such emissions are more than 20 dB below the limit. AC power-line conducted emissions measurements are to be separately carried out only on each of the phase ("hot") line(s) and (if used) on the neutral line(s), but not on the ground [protective earth] line(s). If less than six emission frequencies are within 20 dB of the limit, then the noise level of the measuring instrument at representative frequencies should be reported. The specific conductor of the power-line cord for each of the reported emissions should be identified. Measure the six highest emissions with respect to the limit on each current-carrying conductor of each power cord associated with the EUT (but not the power cords of associated or peripheral equipment that are part of the test configuration). Then, report the six highest emissions with respect to the limit from among all the measurements identifying the frequency and specific current-carrying conductor, or the six highest emissions may be reported over all the current-carrying conductors.

#### **Corrected Amplitude & Margin Calculation**

The basic equation is as follows:

$$V_{C} = V_{R} + A_{C} + VDF$$
$$C_{f} = A_{C} + VDF$$

Herein,  $V_C$  (cord. Reading): corrected voltage amplitude  $V_R$ : reading voltage amplitude  $A_c$ : attenuation caused by cable loss VDF: voltage division factor of AMN  $C_f$ : Correction Factor

The "**Margin**" column of the following data tables indicates the degree of compliance within the applicable limit. For example, a margin of 7dB means the emission is 7dB below the limit. The equation for margin calculation is as follows:

Margin = Limit – Corrected Amplitude

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	LISN	ENV 216	101614	2019-09-12	2020-09-12
R&S	EMI Test Receiver	ESCI	101121	2020-05-09	2021-05-09
Unknown	Coaxial Cable	C-NJNJ-50	C-0200-01	2019-09-05	2020-09-05
R&S	Test Software	EMC32	Version8.53.0	N/A	N/A

#### **Test Equipment List and Details**

\* Statement of Traceability: Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Page 13 of 33

#### Report No.: RDG200721001-00A

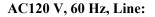
### **Test Data**

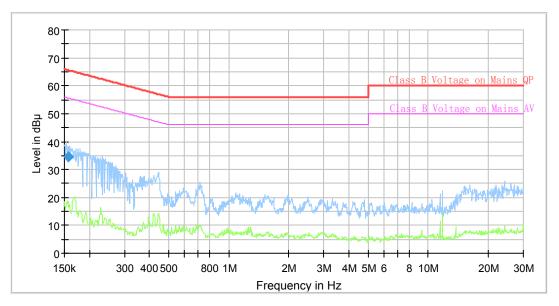
#### **Environmental Conditions**

Temperature:	26.6 °C
<b>Relative Humidity:</b>	68%
<b>ATM Pressure:</b>	100.7kPa
Tester:	Leo Long
Test Date:	2020-08-05

Test Result: Compliance

Test Mode: Transmitting

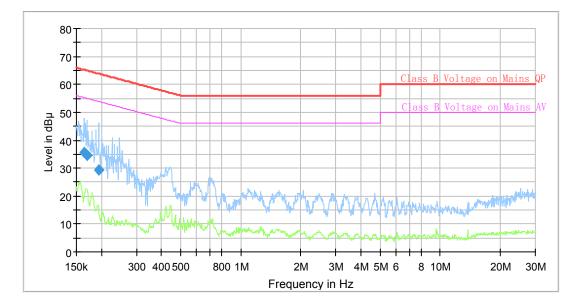




# Final\_Result

Frequency	QuasiPeak	Average	Limit	Margin	Bandwidth	Line	Corr.
(MHz)	(dB µ V)	(dB µ V)	(dB µ V)	(dB)	(kHz)		(dB)
0.156887	34.66		65.63	30.97	9.000	L1	9.6

# AC120 V, 60 Hz, Neutral:



# Final\_Result

Frequency (MHz)	QuasiPeak (dB µ V)	Average (dB µ V)	Limit (dB µ V)	Margin (dB)	Bandwidth (kHz)	Line	Corr. (dB)
0.163273	35.69		65.30	29.61	9.000	Ν	9.6
0.169074	34.67		65.01	30.34	9.000	Ν	9.6
0.194414	29.33		63.85	34.52	9.000	Ν	9.6

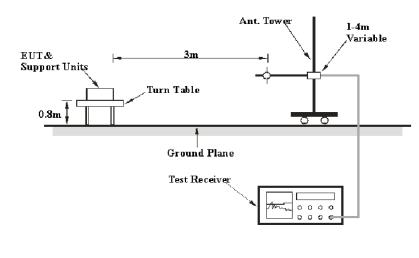
# FCC §15.209, §15.205, §15.247(d) - SPURIOUS EMISSIONS

## Applicable Standard

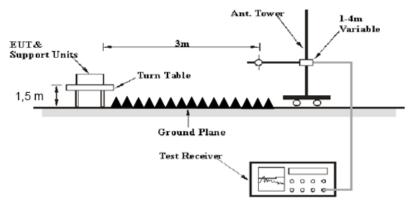
FCC §15.247 (d); §15.209; §15.205

#### **EUT Setup**

#### Below 1GHz:



#### Above 1GHz:



The radiated emission below 1GHz tests were performed in the 3 meters chamber A, above 1GHz tests were performed in the 3 meters chamber B, using the setup accordance with the ANSI C63.10-2013. The specification used was the FCC 15.209, and FCC 15.247 limits.

The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle.

The spacing between the peripherals was 10 cm.

#### EMI Test Receiver & Spectrum Analyzer Setup

The system was investigated from 30 MHz to 25 GHz.

During the radiated emission test, the EMI test receiver & Spectrum Analyzer Setup were set with the following configurations:

#### 30MHz-1000MHz:

Measurement	RBW	Video B/W	IF B/W
QP	120 kHz	300 kHz	120kHz

1GHz-25GHz:

Measurement	Duty cycle	RBW	Video B/W
PK	Any	1MHz	3 MHz
437	>98%	1MHz	10 Hz
AV	<98%	1MHz	1/T

Note: T is minimum transmission duration

If the maximized peak measured value complies with under the QP/Average limit more than 6dB, then it is unnecessary to perform an QP/Average measurement.

#### **Test Procedure**

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all installation combinations.

Data was recorded in Quasi-peak detection mode for frequency range of 30 MHz-1 GHz, peak and Average detection modes for frequencies above 1 GHz.

#### **Corrected Amplitude & Margin Calculation**

The Corrected Amplitude is calculated by adding the Antenna Factor and Cable Loss, and subtracting the Amplifier Gain from the Meter Reading. The basic equation is as follows:

Corrected Amplitude = Meter Reading + Antenna Factor + Cable Loss - Amplifier Gain

The "**Margin**" column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of 7dB means the emission is 7dB below the limit. The equation for margin calculation is as follows:

Margin = Limit –Corrected Amplitude

#### Report No.: RDG200721001-00A

Manufacturer	Description	Model	Serial	Calibration	Calibration				
Manufacturer	Description	WIGHEI	Number	Date	Due Date				
	Radiation Below 1GHz								
Sunol Sciences	Antenna	JB3	A060611-1	2017-11-10	2020-11-10				
R&S	EMI Test Receiver	ESR3	102453	2019-09-12	2020-09-12				
Unknown	Coaxial Cable	C-NJNJ-50	C-0075-01	2019-09-05	2020-09-05				
Unknown	Coaxial Cable	C-NJNJ-50	C-0400-01	2019-09-05	2020-09-05				
Unknown	Coaxial Cable	C-NJNJ-50	C-1400-01	2020-05-06	2021-05-06				
HP	Amplifier	8447D	2727A05902	2019-09-05	2020-09-05				
Farad	Test Software	EZ-EMC	V1.1.4.2	N/A	N/A				
	_	Radiation Above 1G	Hz						
ETS-Lindgren	Horn Antenna	3115	000 527 35	2018-10-12	2021-10-12				
Ducommun Technolagies	Horn Antenna	ARH-4223-02	1007726-01 1304	2017-12-06	2020-12-05				
Agilent	Spectrum Analyzer	E4440A	SG43360054	2020-07-07	2021-07-07				
Unknown	Coaxial Cable	C-SJSJ-50	C-0800-01	2019-09-05	2020-09-05				
Unknown	Coaxial Cable	C-2.4J2.4J-50	C-0700-02	2020-06-27	2021-06-27				
Mini-Circuit	Amplifier	ZVA-213-S+	54201245	2019-09-05	2020-09-05				
Quinstar	Amplifier	QLW-18405536-JO	15964001001	2020-06-27	2021-06-27				
Farad	Test Software	EZ-EMC	V1.1.4.2	N/A	N/A				
E-Microwave	Band-stop Filters	OBSF-2400-2483.5- S	OE01601525	2020-06-16	2021-06-16				
Micro-tronics	High Pass Filter	HPM50111	S/N-G217	2020-06-16	2021-06-16				

## **Test Equipment List and Details**

\* Statement of Traceability: Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

#### **Test Data**

#### **Environmental Conditions**

Test Items	Radiation Below 1GHz	Radiation Above 1GHz
Temperature:	27.9C	28°C
<b>Relative Humidity:</b>	43%	50%
ATM Pressure:	100.7kPa	100.7kPa
Tester:	Jalon Liu	Joker Chen
Test Date:	2020-08-05	2020-08-05

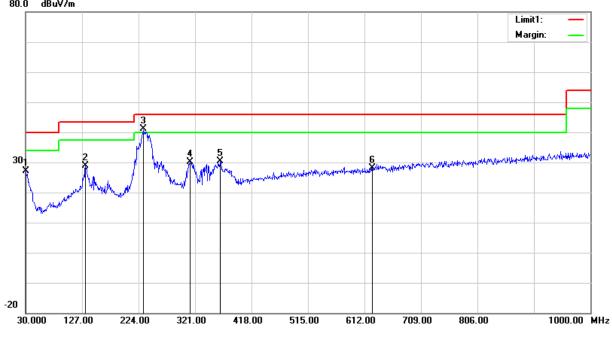
Test Mode: Transmitting

Test Result: Compliance. Please refer to the following table and plots.

#### Report No.: RDG200721001-00A

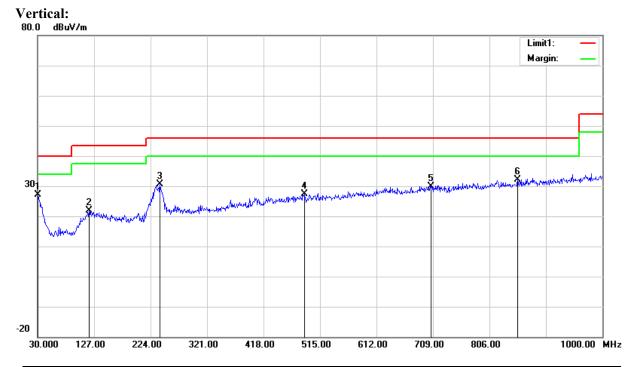
#### 1) 30MHz-1GHz (Low Channel was the worst):

#### Horizontal: 80.0 dBu¥/m



Frequency (MHz)	Receiver Reading (dBuV)	Detector	Correction Factor (dB/m)	Cord. Amp. (dBuV/m)	Limit (dBuV/m)	Margin (dB)
30.0000	25.64	peak	1.46	27.10	40.00	12.90
132.8200	33.97	peak	-5.15	28.82	43.50	14.68
232.7300	47.30	QP	-6.29	41.01	46.00	4.99
312.2700	33.53	peak	-3.46	30.07	46.00	15.93
364.6500	33.02	peak	-2.72	30.30	46.00	15.70
625.5800	26.73	peak	1.48	28.21	46.00	17.79





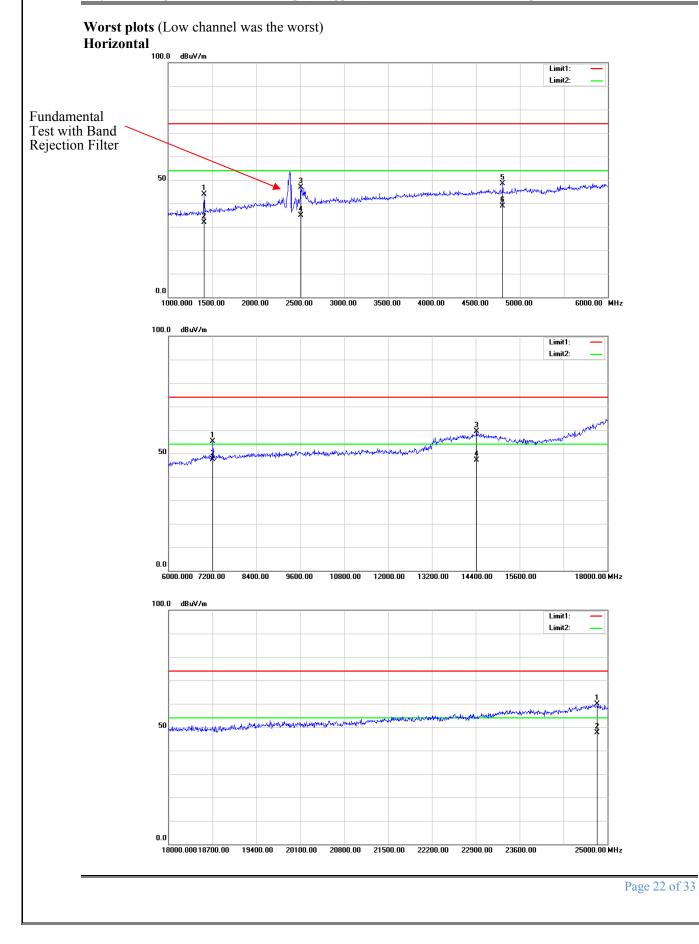
Frequency (MHz)	Receiver Reading (dBuV)	Detector	Correction Factor (dB/m)	Cord. Amp. (dBuV/m)	Limit (dBuV/m)	Margin (dB)
30.9700	26.34	peak	0.74	27.08	40.00	12.92
118.2700	26.93	peak	-5.01	21.92	43.50	21.58
240.4900	36.47	peak	-5.96	30.51	46.00	15.49
487.8400	27.76	peak	-0.44	27.32	46.00	18.68
706.0900	27.09	peak	2.82	29.91	46.00	16.09
854.5000	27.50	peak	4.56	32.06	46.00	13.94

#### Report No.: RDG200721001-00A

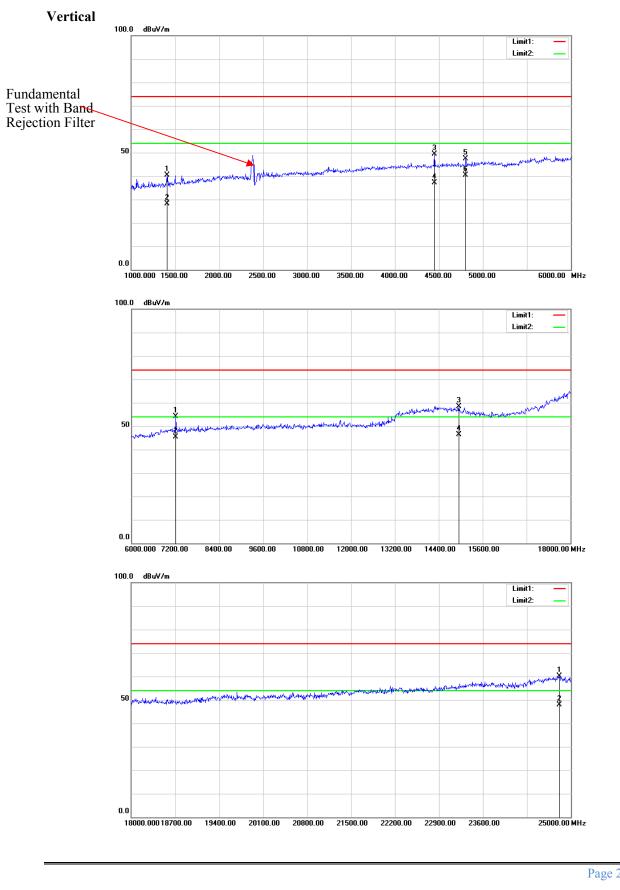
#### 2)1GHz-25GHz:

<b>F</b>	Rec	eiver	Rx A	ntenna	Cable	Amplifier	Corrected	T invit	Manain	
Frequency (MHz)	Reading (dBµV)	Remark	Polar (H/V)	Factor (dB/m)	loss (dB)	Gain (dB)	Amplitude (dBµV/m)	Limit (dBµV/m)	Margin (dB)	
Low Channel: 2402 MHz										
2402.00	63.64	PK	Н	28.10	1.80	0.00	93.54	N/A	N/A	
2402.00	63.08	AV	Н	28.10	1.80	0.00	92.98	N/A	N/A	
2402.00	62.09	PK	V	28.10	1.80	0.00	91.99	N/A	N/A	
2402.00	60.93	AV	V	28.10	1.80	0.00	90.83	N/A	N/A	
2390.00	26.90	PK	Н	28.08	1.80	0.00	56.78	74.00	17.22	
2390.00	14.87	AV	Н	28.08	1.80	0.00	44.75	54.00	9.25	
4804.00	38.23	PK	Н	32.91	3.17	25.60	48.71	74.00	25.29	
4804.00	24.12	AV	Н	32.91	3.17	25.60	34.60	54.00	19.40	
7206.00	40.12	PK	Н	35.74	4.82	25.60	55.08	74.00	18.92	
7206.00	25.63	AV	Н	35.74	4.82	25.60	40.59	54.00	13.41	
			Ν	Middle Cha	nnel: 2440	) MHz				
2440.00	66.35	PK	Н	28.18	1.82	0.00	96.35	N/A	N/A	
2440.00	66.12	AV	Н	28.18	1.82	0.00	96.12	N/A	N/A	
2440.00	66.21	PK	V	28.18	1.82	0.00	96.21	N/A	N/A	
2440.00	65.90	AV	V	28.18	1.82	0.00	95.90	N/A	N/A	
4880.00	42.36	PK	Н	33.06	3.27	25.66	53.03	74.00	20.97	
4880.00	26.26	AV	Н	33.06	3.27	25.66	36.93	54.00	17.07	
7320.00	38.26	PK	Н	36.03	4.62	25.72	53.19	74.00	20.81	
7320.00	25.32	AV	Н	36.03	4.62	25.72	40.25	54.00	13.75	
				High Chan	nel: 2480	MHz				
2480.00	67.25	PK	Н	28.26	1.84	0.00	97.35	N/A	N/A	
2480.00	66.81	AV	Н	28.26	1.84	0.00	96.91	N/A	N/A	
2480.00	66.46	PK	V	28.26	1.84	0.00	96.56	N/A	N/A	
2480.00	66.17	AV	V	28.26	1.84	0.00	96.27	N/A	N/A	
2483.50	27.14	PK	Н	28.27	1.84	0.00	57.25	74.00	16.75	
2483.50	15.46	AV	Н	28.27	1.84	0.00	45.57	54.00	8.43	
4960.00	43.12	PK	Н	33.22	3.23	25.63	53.94	74.00	20.06	
4960.00	25.36	AV	Н	33.22	3.23	25.63	36.18	54.00	17.82	
7440.00	38.12	РК	Н	36.34	4.41	25.85	53.02	74.00	20.98	
7440.00	23.25	AV	Н	36.34	4.41	25.85	38.15	54.00	15.85	

Report No.: RDG200721001-00A







Page 23 of 33

# FCC §15.247(a) (2) –6 dB EMISSION BANDWIDTH

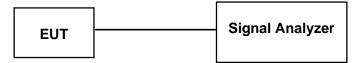
#### **Applicable Standard**

According to FCC §15.247(a) (2)

Systems using digital modulation techniques may operate in the 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.

#### **Test Procedure**

- a) Set RBW = 100 kHz.
- b) Set the video bandwidth (VBW)  $\ge 3 \times RBW$ .
- c) Detector = Peak.
- d) Trace mode = max hold.
- e) Sweep = auto couple.
- f) Allow the trace to stabilize.
- g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.



#### **Test Equipment List and Details**

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	EMI Test Receiver	ESCI	100035	2019-09-19	2020-09-19
Unknown	Coaxial Cable	C-SJ00-0010	C0010/01	Each time	N/A

\* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

#### **Test Data**

#### **Environmental Conditions**

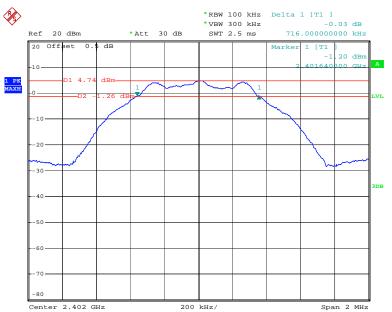
Temperature:	27.4 °C	
<b>Relative Humidity:</b>	50%	
ATM Pressure:	101kPa	
Tester:	Chris Mo	
Test Date:	2020-08-06	

#### Test Mode: Transmitting

*Test Result: Compliance. Please refer to the following table and plots.* 

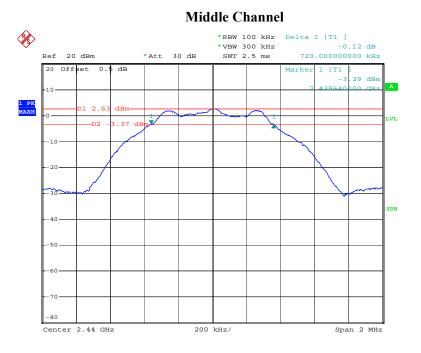
#### Report No.: RDG200721001-00A

Channel	Frequency (MHz)	6 dB Emission Bandwidth (MHz)	Limit (MHz)
Low	2402	0.716	≥0.5
Middle	2440	0.720	≥0.5
High	2480	0.720	≥0.5

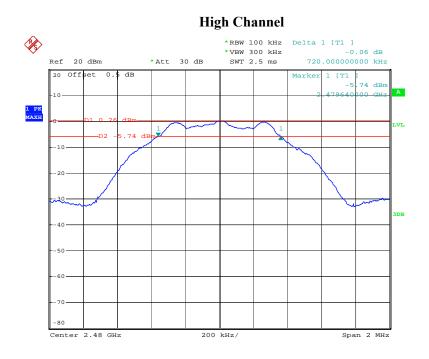


#### Low Channel

Date: 6.AUG.2020 15:59:57



Date: 6.AUG.2020 16:04:18



Date: 6.AUG.2020 16:05:29

# FCC §15.247(b) (3) - MAXIMUM PEAK CONDUCTED OUTPUT POWER

#### **Applicable Standard**

According to FCC §15.247(b) (3), for systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or is transmitting at a reduced power level. If multiple modes of operation are possible (e.g., alternative modulation methods), the maximum conducted output power is the highest total transmit power occurring in any mode.

#### **Test Procedure**

- 1. Place the EUT on a bench and set it in transmitting mode.
- 2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to test equipment.
- 3. Add a correction factor to the display.



#### **Test Equipment List and Details**

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Agilent	USB Wideband Power Sensor	U2021XA	MY5425009	2020-05-09	2021-05-09
Unknown	Coaxial Cable	C-SJ00-0010	C0010/01	Each time	N/A

\* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

#### **Test Data**

#### **Environmental Conditions**

Temperature:	27.4 °C	
<b>Relative Humidity:</b>	50%	
<b>ATM Pressure:</b>	101kPa	
Tester:	Chris Mo	
Test Date:	2020-08-06	

Test Result: Compliance. Please refer to the following table.

# Test Mode: Transmitting

Channel	Frequency (MHz)	Max Peak Conducted Output Power (dBm)	Limit (dBm)
Low	2402	3.89	30
Middle	2440	1.69	30
High	2480	0.59	30

# FCC §15.247(d) – 100 kHz BANDWIDTH OF FREQUENCY BAND EDGE

#### **Applicable Standard**

According to FCC§15.247(d):In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

#### **Test Procedure**

- 1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
- 2. Position the EUT without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured frequency within its operating range, and make sure the instrument is operated in its linear range.
- 3. Set RBW to 100 kHz and VBW of spectrum analyzer to 300 kHz with a convenient frequency span including 100 kHz bandwidth from band edge.
- 4. Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.
- 5. Repeat above procedures until all measured frequencies were complete.

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	EMI Test Receiver	ESCI	100035	2019-09-19	2020-09-19
Unknown	Coaxial Cable	C-SJ00-0010	C0010/01	Each time	N/A

#### **Test Equipment List and Details**

\* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

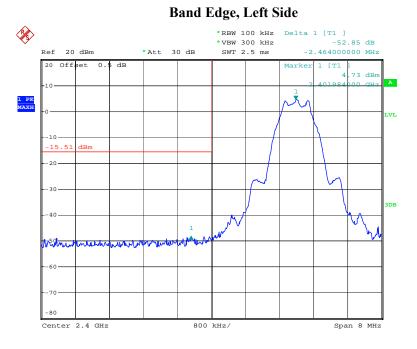
#### Test Data

#### **Environmental Conditions**

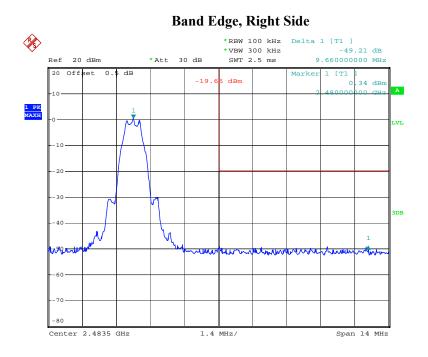
Temperature:	27.4 °C	
<b>Relative Humidity:</b>	50%	
ATM Pressure:	101kPa	
Tester:	Chris Mo	
Test Date:	2020-08-06	

Test Result: Compliance. Please refer to following plots.

#### Test mode: Transmitting



Date: 6.AUG.2020 16:06:53



Date: 6.AUG.2020 16:06:20

# FCC §15.247(e) - POWER SPECTRAL DENSITY

#### **Applicable Standard**

According to FCC§15.247(e):For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.

#### **Test Procedure**

- 1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
- 2. Position the EUT was set without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured frequency within its operating range, and make sure the instrument is operated in its linear range.
- 3. Set the RBW = 3 kHz, VBW = 10 kHz, Set the span to 1.5 times the DTS bandwidth.
- 4. Use the peak marker function to determine the maximum amplitude level.

#### **Test Equipment List and Details**

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	EMI Test Receiver	ESCI	100035	2019-09-19	2020-09-19
Unknown	Coaxial Cable	C-SJ00-0010	C0010/01	Each time	N/A

\* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

#### **Test Data**

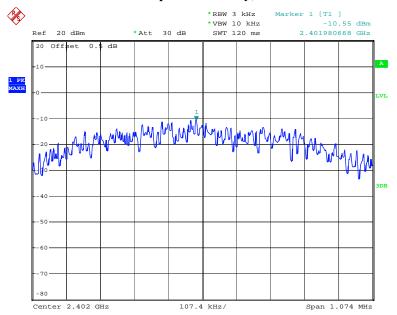
#### **Environmental Conditions**

Temperature:	27.4 °C	
<b>Relative Humidity:</b>	50%	
ATM Pressure:	101kPa	
Tester:	Chris Mo	
Test Date:	2020-08-06	

Test Result: Compliance. Please refer to the following table and plots

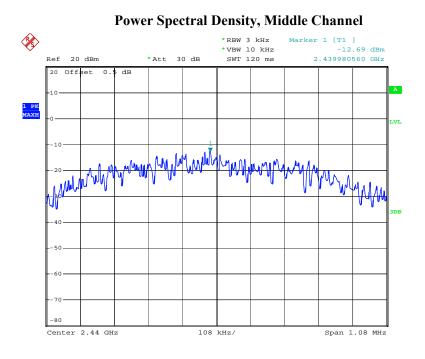
#### Test Mode: Transmitting

Channel	Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)
Low	2402	-10.55	$\leq 8$
Middle	2440	-12.69	$\leq 8$
High	2480	-15.03	$\leq 8$

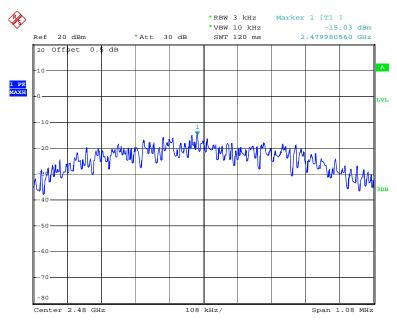


#### **Power Spectral Density, Low Channel**

Date: 6.AUG.2020 16:07:17



Date: 6.AUG.2020 16:07:49



#### Power Spectral Density, High Channel

Date: 6.AUG.2020 16:08:10

#### \*\*\*\*\* END OF REPORT \*\*\*\*